



SELF STUDY REPORT

FOR

2nd CYCLE OF ACCREDITATION

**K J COLLEGE OF ENGINEERING AND MANAGEMENT
RESEARCH**

**SR.NO 25 AND 27, KONDHWA SASWAD ROAD, NEAR BOPDEV GHAT, PUNE
411048.**

411048

www.kjei.edu.in/kjcoemr

Submitted To

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

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1. EXECUTIVE SUMMARY

1.1 INTRODUCTION

K J College of Engineering and Management Research (KJCOEMR), Pune established in 2009, under the umbrella of KJ Educational Institutes (KJEI), Pune with the dream to become a premier institute in the field of technical education. KJCOEMR is one of the reputed technical Institute imparting the finest quality education in Pune. The institute is affiliated to Savitribai Phule Pune University(SPPU), Approved by Govt. of Maharashtra, and Recognized by AICTE, New Delhi.

KJ Educational Institutes (KJEI), is a pioneer in establishing and managing institutions in various streams of education (Engineering, Pharmacy, Architecture, Management, Engineering Diploma courses and an International School with Junior College) at almost all levels. " For socio-economic and ethical transformation of our country, the foundation stone of the KJ's Educational Institute is sowed in 2005 with the great vision 'Education for All', KJEI has a commitment to contribute in the development and progress of the Indian society. The mission of KJEI is to impart quality education in engineering and creating a conducive environment for teaching learning process. It is one of the largest and best educational campus spread over 110 acres with excellent infrastructure, green and pollution free environment, located in the Sahyadri Valley at Bopdev Ghat, near Kondhwa Annex area in Pune city. Under the strong guidance of Hon. Shri. Kalyan Jadhav, President, Hon. Mr. Vinod Jadhav, Treasurer, Hon. Mrs. Harshada Jadhav, Managing Director, Hon. Ms. Vibhavari Jadhav, Managing Director, Hon. Maj. Gen. Sameer Kalla VSM (Retd.), Executive Director, KJEI is serving to the Rural area in the field of education. KJEI provides KJEI scholarship to economically weaker section students with the thought that no one will remain far from education due to financial problem.

"The journey of a thousand miles begins with one step."

With these words KJEI is continuously running to serve Society in every aspect of life.

K J College of Engineering and Management Research is started in 2009(Academic year 2009-2010) and popularly known as KJCOEMR in the year 2010. The evolution of the Institute over the years has witnessed a strong blend of state-of-the-art infrastructure and intricately intertwined human resources committed to providing professional education with a thrust on creativity and innovation. The main focus of KJCOEMR is on adapting the teaching-learning process that leads the research orientation to expand personal as well as national growth. It is a premium self-financed institute with necessary infrastructural facilities in place to support all academic activities in each department.

The institute is focused on its highest academic excellence and committed to providing quality education. Teaching Learning Practices (TLP) in all the departments are streamlined for the improvement of academic performance and holistic development of the students. Learning methodology, quality in teaching, planning, and flexibility in working are an integral part of culture and practices at KJCOEMR. Various activities entrust our students with the required skills to command in dynamic and challenging global environment.

Vision

"To be a premier knowledge center of the nation for socio-economic development."

Mission

"To provide education that combines rigorous academics with joy of discovery through sustained efforts and dynamic strategies in building innovative, participatory, problem based learning practices and research that leads to capacity building of the students."

1.2 Strength, Weakness, Opportunity and Challenges(SWOC)

Institutional Strength

KJCOEMR believes on holistic development and providing quality education so we follow SWOC analysis to determine the strengths, weaknesses, opportunities, and challenges which help us to grow to get the success.

Strengths:

- Excellent Teaching Learning Process
- Student-centric learning environment
- Consistent excellence in University Results
- Experienced, skilled and dedicated Faculty with an effective teamwork culture
- State of art laboratories and Infrastructure for qualitative teaching
- Entrepreneurship Development Cell
- Research center with dedicated research labs
- Planned Activities like FDP/STTP, SDP, workshops and guest lectures etc.
- Support to faculty for pursuing higher education
- Best practice Student Training Programme and Teacher Guardian scheme.
- Tie-up with European Universities and MOU with Industries
- Support Faculty and students for holistic development and making them globally competent
- Mentorship with the College of Engineering Pune
- Library with ample number of books, reading hall and digital access
- Good strike rate in Placement

Institutional Weakness

- Consultancy and extension activity
- Number of faculty with PhD qualification
- Number of research publications in reputed journals and Patents
- Sponsored Projects by Industry
- Moderate industry-institute interactions

Institutional Opportunity

- Center of excellence in specific domains
- Collaboration with Reputed Institutes

- Fostering research and development to support the industry around Pune
- Enhancing the entrepreneurship activity to join with Make in India and start-up activity of the Government of India.
- Enhancing the number of patents and commercialization
- Establishment of incubation center

Institutional Challenge

- Enhancing employability skills as per industrial need in an affiliated institute
- Attract meritorious students at national level
- Dynamic curriculum that acclimatizes new technologies
- Adaptability to globally changing industrial scenario Intellectual property generation Technology
- Commercialization Community Development project execution
- Skill development for Placement specially for students from rural background

1.3 CRITERIA WISE SUMMARY

Curricular Aspects

KJCOEMR is affiliated with Savitribai Phule Pune University and follows its curriculum. The institute implements a standard process for efficient curriculum delivery. The institute ensures the achievement of the curriculum objectives is guaranteed via Course Outcome (CO) attainment. The evaluation of CO achievement is based on tools including unit tests, mock tests, guest lectures, assignments etc.

To effectively teach the curriculum, the faculty organizes/participates in workshops, Faculty Development Programs and Short-Term Training Programs. To get a more comprehensive understanding of the topic from an industry viewpoint, the institute has inked Memorandum of Understanding (MOU) with companies, IITs and renowned institutes like COEP.

The Institute offers value-added certification courses in addition to the SPPU-affiliated programme courses. These aid in bridging the knowledge gap between the curriculum and industry. A student training/development program assists students in developing their personalities with exceptional technical, non-technical skills. Different events are hosted such as guest lectures, industry visits/training, seminars, value-added programmes, and cultural, sports events.

Different cells such as Women Empowerment Cell deals women issues, Anti-Ragging cell prevents ragging in the college, Grievance Cell solves faculties and students' grievances, Teacher Guardian(TG) Scheme for continuous academic monitoring, SPPU-approved National Service Scheme (NSS) helps students learn moral and ethical principles to serve society.

Under Campus Social Responsibility blood donation drives, orphanage visits, fundraising for places devastated by natural disasters, etc are taken. Curriculum Yearly Feedback is taken from different stakeholders including students, staff, alumni, parents and industry for planning guest lectures, content beyond syllabi and value-added courses.

Teaching-learning and Evaluation

Academic success is a direct result of outstanding teaching learning since it is the core component of any educational institution. This is achieved through retaining qualified and experienced teachers and a well-defined teaching-learning process. The admissions to various programmes are made in accordance with the procedure prescribed by the state government and Directorate of Technical Education(DTE), Maharashtra.

A student training program (STP) is introduced for bridging the gap between the Skills required by industry and the skills acquired for strengthening the teaching learning process and practices. At institute level unique STP program is introduced for enhancing the quality of students, which consist of five modules 1. spoken skills, 2. writing skills, 3. technical skills, 4. Group Discussion and 5. Personal Interview. The Departmental Placement facilitator administers quantitative tests and periodically evaluates student performance using the results.

The performance of the students is evaluated in summative assessment like internal examinations, mock practical examination. Formative assessment is done through continuous assessment. For slow learners with the assistance of Teacher Guardian System(TGS), remedial tutorial classes are conducted.

The efficient execution of the teaching plan and adherence to the academic calendar are monitored by the heads of all departments and the Academic Monitoring Committee (AMC). The innovative teaching methodologies like quiz, crossword, and animation and working models are used in teaching for conceptual understanding. The students are encouraged to participate in collaborative learning. g. They are encouraged in problem-solving through technical application-oriented industrial projects. Students are encouraged to take part in National and International level events to nurture their critical thinking and leadership qualities. The institute has developed well-defined process to evaluate learning outcomes. To achieve the desired program outcome, proper Teaching learning outcome process is defined.

Research, Innovations and Extension

A knowledge-creation and knowledge-transfer ecosystem has been established by the KJCOEMR by building an incubation centre. Our students successfully completed research projects in the academic year 2021–2022 on development of sustainable crops in hydroponic and aquaponic systems. A few exploratory and laboratory-size experiments such as sustainable energy concepts of electricity generation from organic waste material and electricity generation from used battery cells have been completed. Recent developments in research include initiatives to produce energy from plastic and biodegradable garbage.

A research-based start-up project supported by incubation center received the runner-up prize in a national competition. Springer magazine was accepted One student's articles on an AI-based start-up. The innovation and incubation lab gives access to students for IOT tools and assistance to senior faculties for putting their innovative ideas into action. There are 7 patents published by the staff and 50+ programs including seminars, webinars, workshops, activities under MOU were carried out. One international conference was conducted. More than 70 research papers were published in journals and in international conferences and 1 book was published.

The Institute has carried out more than 60 activities through NSS. The activities include Swachha Bharat Abhiyan, Street play, Blood donation camp, go cycle rally, Tree plantation, free health check-up, NSS special camp, Yoga day, NSS day and many more.

The Institute has received appreciation letters in 2021-22 for the remarkable by NSS, SPPU Pune. In 2021-2022 seven outreach Programs were conducted in collaboration with industry, community, and NGO through NSS/ NCC/Red Cross/YRC.

Infrastructure and Learning Resources

Necessary state of art infrastructure, learning resources and facilities as per the AICTE norms are available for curricular, co-curricular and extracurricular activities. Spacious ventilated classrooms with ICT tools, tutorial rooms and well-equipped laboratories for students are provided. C.C.T.V. cameras are installed for surveillance and monitoring of academics and university examinations. Seminar hall and conference room for conducting workshops, conferences, seminars, group discussions and college functions are provided. Well-equipped central library with reading-room, digital library, number of text-books, reference books, and journals. E-journals access is provided to students/faculty for research. All departments are well equipped with IT infrastructure, computers, peripherals, internet service. Information security and network security are ensured through firewall. The campus has Wi-Fi and high speed (300Mbps) Internet facility. Well-furnished hostel is provided in the campus. The institute has play-ground for outdoor games, gymnasium, indoor games facility, canteens, mess, ATM and general-stores. Uninterrupted electricity supply is ensured in the campus with the help of 500 KVA generators and UPS (70KVA) systems. The institute has provided safe drinking water facility through water cooler with filter. Sewage treatment plant is setup. The institute has effective mechanism for maintenance and upkeep of the infrastructure. The housekeeping staff looks day-to-day cleanliness. Security staff maintains security and safety. Electrician for electrical works is available. Laboratory equipment, computers, gadgets are repaired, maintained internally and also by periodic maintenance contracts.. Annual maintenance contracts are executed for the maintenance of UPS, generators and water coolers. Plantation is taken care by a gardening agency.

Student Support and Progression

The institute has about 1154 students are studying from diverse background. Numerous programmes have been put in place to undertake academic activities and develop students toward employment, higher education, and entrepreneurship.

Through a variety of scholarships, freeships and earn-and-learn programmes, the institute supports students from diverse categories, including SC, ST, and OBC. Along with Government scholarship some Non-Government scholarship also provided to students like Persistent, Leela Poonawala, etc. Also Institute Provides Scholarship for economically weaker section students by KJEI Scholarship. To help students to become globally competent competitive examinations guidance, career counselling sessions, soft skill development & Language skill sessions, etc are organise for students. The institute has an active placement cell that aids students in finding employment opportunities and arrange campus interviews as well as a separate ED cell to help students interested in starting their own firm develop their entrepreneurship abilities. The institution continues to have good relationships with alumni through Alumni Meet, career counselling sessions, technical lectures, webinars, etc.

Institute encouraged students to participate in co-curricular and extracurricular activities. The history of involvement and accomplishments in the different events is proof of this. Every year, thousands of students engage in the three major events that KJCOEMR organises as part of the KJ Youth Festival: MAIDAN (sports), GRAVITY (technical events), and MALHAR (cultural events).

College has various student clubs such as NSS, Women empowerment cell, Sports & Cultural club, and Student welfare club. Many events are organized under these cells for developing the various qualities among the students like teamwork, management, leadership and responsibility towards society. In addition to this, every department has a student association which helps the students to arrange Guest Lectures, expert talks, webinars, seminars, competitions and also promote for publications.

Governance, Leadership and Management

This Institute has mission to provide quality higher education for building a center of excellence in engineering education. The focus is on holistic development of students and teachers. Research and Development culture is developed among faculty members and students. The students are encouraged and motivated to participate in extra-curricular and co-curricular activities. The concrete efforts are taken for strengthening the Industry-Institute interaction and for gaining the knowledge in the field of recent trends and technologies along with entrepreneurship domain. Institute exhibits transparent work culture. Student centric activities are always performed at this Institute by adopting participative management strategies. Decentralization of powers are executed at institute level. The faculty members are involved in decision making processes for generating academic and administrative leaders. Periodic interaction is made with all stakeholders for preparation and execution of perspective plans, policies and strategies of the institute.

The Institute has well defined organizational structure. Recruitment norms are followed which are set by the affiliating University, Government of Maharashtra and AICTE. Institute offers various Welfare schemes to Teaching and Non teaching staff members. Up gradation of skills of teaching and nonteaching members is ensured by conducting different FDP/STTP/FOP, workshops. Feedback system is deployed to ensure quality of faculty members.

Institute has adequate provisions for academic and administrative budgets. Optimum utilization of the available resources and funds is been taken care for efficient functioning of institute.

Principal, Vice Principal and HODs are continuously monitoring teaching learning process and overall development of students along with Academic Monitoring Committee (AMC). AMC is part of Internal Quality Assurance Cell (IQAC). This committee audits and assesses the quality of departmental day to day activities periodically.

Institutional Values and Best Practices

The institute believes in protecting the environment, producing ethical professionals and good citizens of country. Also focused on socio-economic empowerment of women through safe environment, creating rights awareness, policies and programmes. Institute organizes national/international commemorative days and celebrates the festival and birth anniversaries of great Indian personalities to understand the contribution of people in nation-building. In order to create a green environment around the institute, initiatives such as tree planting, waste-water treatment and reuse, safe e-waste disposal and solar energy utilization are undertaken. Periodically conduct the green audit, environmental audit and energy Audit. Institute believes to make the campus disabled-friendly and barrier-free.

The "Student Training Program" are introduced in order to enhance the quality of the students by empowering them with globally needed skills. Institute always focuses on the social nurturing of students. Institute takes

many initiatives through NSS and Cultural activities for harmony, cooperation, core-values with dignity, diversity and inclusiveness. NSS and college management has taken initiatives like blood donation camp, road safety awareness, household grocery distribution to poor people, corona preventive kit distribution to police, oxygen audit in hospitals during covid 19 pandemic, NSS camps in villages etc taken to resolve social issues and make students more responsible towards society.

Institute spread over 110 acres of land with green and pollution-free environment where students can concentrate on study, health, sports, hobbies. Many facilities like professional cricket ground, turf ground, Olympic size swimming pool, auditorium and open space helps student to pursue their interest and form hobby clubs.

2. PROFILE

2.1 BASIC INFORMATION

Name and Address of the College	
Name	K J COLLEGE OF ENGINEERING AND MANAGEMENT RESEARCH
Address	Sr.No 25 and 27, Kondhwa Saswad Road, Near Bopdev Ghat, Pune 411048.
City	Pune
State	Maharashtra
Pin	411048
Website	www.kjei.edu.in/kjcoemr

Contacts for Communication					
Designation	Name	Telephone with STD Code	Mobile	Fax	Email
Principal	Suhas S Khot	091-8446021199	9156555866	-	principalkjcoemr@gmail.com
IQAC / CIQA coordinator	Sanjay S. Khonde	091-8446031199	9552500410	-	sanjaykhonde71@gmail.com

Status of the Institution	
Institution Status	Private and Self Financing

Type of Institution	
By Gender	Co-education
By Shift	Regular

Recognized Minority institution	
If it is a recognized minority institution	No

Establishment Details

State	University name	Document
Maharashtra	Savitribai Phule Pune University	View Document

Details of UGC recognition		
Under Section	Date	View Document
2f of UGC		
12B of UGC		

Details of recognition/approval by stationary/regulatory bodies like AICTE,NCTE,MCI,DCI,PCI,RCI etc(other than UGC)				
Statutory Regulatory Authority	Recognition/Approval details Institution/Department programme	Day,Month and year(dd-mm-yyyy)	Validity in months	Remarks
AICTE	View Document	16-08-2022	12	AICTE EOA is applicable for academic year

Recognitions	
Is the College recognized by UGC as a College with Potential for Excellence(CPE)?	No
Is the College recognized for its performance by any other governmental agency?	No

Location and Area of Campus				
Campus Type	Address	Location*	Campus Area in Acres	Built up Area in sq.mts.
Main campus area	Sr.No 25 and 27, Kondhwa Saswad Road, Near Bopdev Ghat, Pune 411048.	Urban	10.86	11806.66

2.2 ACADEMIC INFORMATION

Details of Programmes Offered by the College (Give Data for Current Academic year)						
Programme Level	Name of Programme/Course	Duration in Months	Entry Qualification	Medium of Instruction	Sanctioned Strength	No.of Students Admitted
UG	BE,Civil Engineering	48	HSC Science	English	120	4
UG	BE,Computer Engineering	48	HSC Science	English	120	120
UG	BE,Electrical Engineering	48	HSC Science	English	30	18
UG	BE,Electronics And Telecommunication Engineering	48	HSC Science	English	30	30
UG	BE,Mechanical Engineering	48	HSC Science	English	90	4
PG	ME,Civil Engineering	24	BE or B.Tech	English	24	24
PG	ME,Computer Engineering	24	BE or B.Tech	English	12	0
PG	ME,Computer Engineering	24	BE or B.Tech	English	24	4
PG	ME,Mechanical Engineering	24	BE or B.Tech	English	24	2

Position Details of Faculty & Staff in the College

Teaching Faculty												
	Professor				Associate Professor				Assistant Professor			
	Male	Female	Others	Total	Male	Female	Others	Total	Male	Female	Others	Total
Sanctioned by the UGC /University State Government	10				25				72			
Recruited	3	0	0	3	1	1	0	2	15	14	0	29
Yet to Recruit	7				23				43			
Sanctioned by the Management/Society or Other Authorized Bodies	7				23				43			
Recruited	2	0	0	2	2	2	0	4	13	11	0	24
Yet to Recruit	5				19				19			

Non-Teaching Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				20
Recruited	16	4	0	20
Yet to Recruit				0

Technical Staff				
	Male	Female	Others	Total
Sanctioned by the UGC /University State Government				0
Recruited	0	0	0	0
Yet to Recruit				0
Sanctioned by the Management/Society or Other Authorized Bodies				10
Recruited	7	3	0	10
Yet to Recruit				0

Qualification Details of the Teaching Staff

Permanent Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	5	0	0	3	3	0	2	0	0	13
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	29	23	0	52
UG	0	0	0	0	0	0	0	0	0	0

Temporary Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Part Time Teachers										
Highest Qualification	Professor			Associate Professor			Assistant Professor			
	Male	Female	Others	Male	Female	Others	Male	Female	Others	Total
D.sc/D.Litt/LLD/DM/MCH	0	0	0	0	0	0	0	0	0	0
Ph.D.	0	0	0	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0	0	0	0
UG	0	0	0	0	0	0	0	0	0	0

Details of Visting/Guest Faculties				
Number of Visiting/Guest Faculty engaged with the college?	Male	Female	Others	Total
	0	0	0	0

Provide the Following Details of Students Enrolled in the College During the Current Academic Year

Programme		From the State Where College is Located	From Other States of India	NRI Students	Foreign Students	Total
UG	Male	858	11	0	0	869
	Female	221	0	0	0	221
	Others	0	0	0	0	0
PG	Male	48	2	0	0	50
	Female	14	0	0	0	14
	Others	0	0	0	0	0

Provide the Following Details of Students admitted to the College During the last four Academic Years					
Category		Year 1	Year 2	Year 3	Year 4
SC	Male	40	10	19	9
	Female	14	4	7	2
	Others	0	0	0	0
ST	Male	0	3	0	1
	Female	0	0	0	0
	Others	0	0	0	0
OBC	Male	73	25	48	17
	Female	30	5	20	5
	Others	0	0	0	0
General	Male	288	82	216	191
	Female	63	23	61	29
	Others	0	0	0	0
Others	Male	40	16	32	4
	Female	10	2	6	3
	Others	0	0	0	0
Total		558	170	409	261

1. Multidisciplinary/interdisciplinary:	<p>The institute's vision and mission are to promote the overall development of both teachers and students. In order to fulfill the institution's vision, the mission statement explicitly concentrates on the needs of society, emphasizing the adoption of a distinct and unique value system, an open workplace culture, extremely good academic and physical conditions, and an environment that is suitable for learning and creativity. First-year engineering students must take the fundamental Engineering sciences, such as physics, chemistry, and mathematics, whereas civil engineering students must adopt geology. The curriculum by University, offers a credit system based on student choice in order to foster their overall academic development. The curriculum at present haven't included multidisciplinary flexible curriculum that enable multiple entry and exit at the end. The open elective subjects, audit courses, and honours courses are available to students. In addition to academics, proper steps are taken to establish an interdisciplinary or multidisciplinary research culture in teachers and students. They are urged to join teams made up of individuals from various academic fields as they take part in a variety of technical competitions. To engage in more multidisciplinary research endeavors to find solutions to society's most pressing issues and challenges, the Institution has established an Innovation and Incubation cell. The students are motivated and supported to carry out multidisciplinary start up based projects such as water conservation and reuse for sustainable food development using hydroponic systems. The civil engineering students along with the pharmacy department have established the aquaponic systems for water purification and reuse, fish culture and edible crop production using planted bio filter techniques for agricultural purpose. Few projects such as sustainable energy concepts of electricity generation from organic waste material and from used battery cells were completed at preliminary and laboratory scale level. Recent trends in research such as biofuel generation projects using plastic wastes and biodegradable wastes are under development.</p>
2. Academic bank of credits (ABC):	<p>The institution promotes and makes sure that students choose to participate in online courses through national programmes like SWAYAM and NPTEL. In our institute, we are currently registered and in</p>

	practice of ABC.
3. Skill development:	<p>The institute offers Student Training Program (STP) in the form of soft, communication, technical, fundamental, and aptitude training, research methodology, and technical report writing during third year of engineering as a stage toward self-confidence and self-learning that aids students in further improving their core skills. In the fourth year, the Institute is planning to implement the value-added courses on the recent technology advancements and major engineering disciplines to be taught by industry professionals to help students expand their skill sets in accordance with market demands. The Institute has carried out various activities through NSS in the neighborhood communities and the students participated, successfully completed the activities. For providing students, the opportunities of higher studies in abroad at various universities across the world, the Institution is taking initiatives by trying to make MOU's with the relative service providers which will provide the same free of cost. The institute has made memorandum of understanding with ZENSAR to provide aptitude training of 30 hours, soft skill development programmes, 60 to 90 hours of technical training to develop skill in programming languages like SQL, JAVA, python, AL and ML etc. IT also provides training in cyber security, cloud computing and other recent technological tools. In order to develop awareness of the environmental issues and their effects, such as biodiversity protection and sustainable development in the students, the Institute provides environmental Studies I and II credit courses during the first year of engineering. Elections, democracy, and the constitution are all covered in the course material.</p>
4. Appropriate integration of Indian Knowledge system (teaching in Indian Language, culture, using online course):	<p>The students participate in intercollegiate FIRODIYA and PURUSHOTTAM Drama competitions and social events like NSS. Through NSS, the Institute has conducted a number of programmes in the surrounding communities, and the students have taken part and successfully carried out the tasks. A few of the events are Swachha Bharat Abhiyan, Street play, NSS special camp, NSS day celebration, shahid diwas, Marathi bhasha diwas, women's day, tribute to martyrs, Engineer's day, Covid vaccination drive, Mask distribution activity, Covid-19 awareness quiz, mask preparation and distribution, Savitribai</p>

	<p>Phule jayanti, Swami Vivekananda jayanti and Rajmata Jijau jayanti, Shivjayanti, University level camp participation, Road safety awareness activity, Savitribai Phule smurtidin, NSS special camp for rural development, Dr. A.P.J. Abdul Kalam jayanti etc. Blood donation camps were arranged regularly by the students of K.J. College in the college premises. The activity has been supported by hospitals and NGOs. To sensitize students to social issues, go cycle rally, tree plantation, free health check-up and yoga activities are carried out. The mentalities of students have been stimulated and they were made aware of their responsibilities as members of society courtesy to the NSS special camp for rural development. The students integrated themselves into village life and engaged in social activities to overcome the villagers' ignorance of many social issues. The students mould themselves with the village life and carried out the social activities to bridge the gap between villagers and their unawareness towards many social issues. The programs like Savitribai Phule jayanti, Swami Vivekananda jayanti and Rajmata Jijau jayanti, Shivjayanti etc. are carried out regularly every year to make students aware of the work, devotion and dedication of such great people in overall development of the nation. The college hosts the technical competition GRAVITY as well as the cultural and sports event KJ YOUTH FEST. It serves as the cornerstone of an annual festival of culture and sports. This activity encourages student creativity in areas such as modeling, analysis, planning, interpersonal skills, acting, singing, dancing, playing an instrument, and management.</p>
5. Focus on Outcome based education (OBE):	<p>The Institute is affiliated with Savitribai Phule Pune University. The University develops the curriculum, and the institute adheres to it strictly. The design of the syllabus involves participation and contributions from the faculty of several departments. These teachers provide important input that helps to shape the curriculum. According to the standards and recommendations of statutory regulatory authorities, each course listed under a department's curriculum has Program Educational Objectives (PEOs), Program Outcomes (POs), and Program Specific Outcomes (PSOs). Teachers, students, and other stakeholders are informed about these POs and PSOs</p>

	through the institute website, student/faculty notice boards, laboratory notice boards, posters in hallways and administrative offices, laboratory manuals, project workbooks, department news bulletins, faculty course files, etc. The faculty defines each course's course objectives and course results and discusses about it with the students. At the end of the semester, all departments map the course outcomes with POs and PEOs in order to strengthen the teaching-learning process for the upcoming semester. In addition to the already established curriculum, which includes Project Based Learning, Mini Projects, Seminars, Final Year Projects, and Internships, the institute also hosts Technical Design and project Competitions.
6. Distance education/online education:	The institute motivates students to get certification for online and offline courses like NPTEL, Bytxl, IBM Skill Build, JTT Barkley, FUEL, ZENSAR etc. For productive academic teaching, the Institute utilizes online tools like Google Classroom, Microsoft Teams, etc. whenever the online training is required. Through these channels, information is circulated in the form of lecture notes, videos, etc. The institute has made Memorandum of understanding with JTT Barkley, ZENSAR and Bytxl to provide online education in various tools and quiz to develop soft skills. The Institute has done MOU with IIT Kanpur Foundation for Advanced Continuing Education & Training (IFACET) for FDP, STTP etc. to be conducted for students and staff. The Institute effectively uses utility of virtual laboratory to strengthen the teaching and learning method.

Institutional Initiatives for Electoral Literacy

1. Whether Electoral Literacy Club (ELC) has been set up in the College?	The Electoral Literacy Club has been set up in the college on 3 rd August 2022. It is a platform to engage students through interesting activities and hands-on experience to sensitise them on their electoral rights and familiarise them with the electoral process of registration and voting. The club will have all the students from all semesters as its members Vision: To contribute to have active democratic citizenship to educate voter and right of
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	<p>electoral participation at the young age. Objectives:</p> <ol style="list-style-type: none"> 1) To educate the targeted populations about voter registration, electoral process and related matters through hands on experience 2) To facilitate EVM and VVPAT familiarization and education about the robustness of EVM as well as the integrity of the electoral process using EVMs 3) To help the target audience understand the value of their vote and exercise their right to franchise in a confident, comfortable and ethical manner 4) To harness the potential of ELC members for carrying the electoral literacy in communities 5). To facilitate voter registration for its eligible members who are not yet registered. 6) To develop a culture of electoral participation and maximize the informed and ethical voting and follow the principle 'Every vote counts' and 'No Voter to be Left Behind' <p>Different activities are carried out for the students under this club to strengthen the culture of electoral participation for the future voters.</p>
2. Whether students' co-ordinator and co-ordinating faculty members are appointed by the College and whether the ELCs are functional? Whether the ELCs are representative in character?	<p>The committee members for the ELC are formulated and is as follows</p> <ol style="list-style-type: none"> 1 Dr.Suhas S.Khot-Chairman 2 Dr. Atul Pujari-Nodal-Officer 3 Prof. Sandip Sahane-Faculty Coordinator 4 Vishal Chaudhari-Member 5 Nehar Surkar-Member 6 Samiksha Bhoir-Member 7 Sonali Gadhave-Member 8 Nikhil Suryavanshi-Member 9 Aishwarya Nimbalkar-Member 10 Rushikesh Shahane-Member 11 Abhishek Katte-Member 12 Rasika Gaikwad-Member <p>The committee is functional and conducts different activities as per the calendar decided at the start of the semester.</p>
3. What innovative programmes and initiatives undertaken by the ELCs? These may include voluntary contribution by the students in electoral processes-participation in voter registration of students and communities where they come from, assisting district election administration in conduct of poll, voter awareness campaigns, promotion of ethical voting, enhancing participation of the under privileged sections of society especially transgender, commercial sex workers, disabled persons, senior citizens, etc.	<p>The different general initiatives carried out by the ELC are</p> <ol style="list-style-type: none"> 1. Organizing the club enrollment 2. Planning the activities and developing the calendar for the year 3. Frame the guidelines for smooth conduction of electoral activities 4. Supervising the activities as per the calendar 5. Generate the ELC resources 6. Facilitating the students not registered as voters. 7. Registering the students and communities for voter registration in their residential areas 8. Participate in voter awareness campaign.
4. Any socially relevant projects/initiatives taken by College in electoral related issues especially research projects, surveys, awareness drives, creating content, publications highlighting their contribution to	<p>The college has conducted voter registration campaign program called as "Special Summary Revision Program"</p> <ol style="list-style-type: none"> 1. Enrollment of new elector/voter 2. Linking of Aadhar No. with Voter ID

<p>advancing democratic values and participation in electoral processes, etc.</p>	<p>on 25 th Nov. 2022 in association with NSS and Collector office, Pune The venue of the program was main Seminar hall on ground floor from 10.00 am to 2.00 pm. All the students who have completed 18 yrs of age were informed about the campaign and asked to register as New Voter. The documents required for registration were checked by the ELC members and the students were asked to register. The website for new voter register was given to the students https://www.nvsp.in and the procedure was explained to them .The total students who registered on that day were 118 (48 girls and 70 boys) .The notice was circulated on all the official groups of the college.</p>
<p>5. Extent of students above 18 years who are yet to be enrolled as voters in the electoral roll and efforts by ELCs as well as efforts by the College to institutionalize mechanisms to register eligible students as voters.</p>	<p>The efforts taken by the college to institutionalize mechanism to register eligible students as voters involves Wall Magazines: The idea behind a wall magazine is to create and share electoral literacy information in an interesting, creative and engaging manner and encourage participation from all students Young Voter festival (Yuva Matadata Mahotsav) :The Festival/Mahotsav will bring together members of all college societies to organize an array of events like art contest , street play / road show, Photography Contest ,Dance Competition , Election Quiz, Voter Pledge. National Voter Day Celebrations: The National Voters' Day, celebrated on 25 January of every year, is significant in its purpose to encourage young voters to take part in the electoral process. Debate and Elocution Competition: Debates and discussions are a great way for conversation to get going amongst the youth. ELC members, have already garnered enough knowledge on the electoral process and subjects related to voter awareness. They will thus take the conversation further by organizing an inter-college competition.</p>

Extended Profile

1 Students

1.1

Number of students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1154	1221	1034	1262	1572

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2 Teachers

2.1

Number of teaching staff / full time teachers during the last five years (Without repeat count):

Response: 161

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2

Number of teaching staff / full time teachers year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
64	69	80	109	124

3 Institution

3.1

Expenditure excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
229.97	274.17	188.17	530.37	547.57

4. Quality Indicator Framework(QIF)

Criterion 1 - Curricular Aspects

1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

Response:

K J College of Engineering and Management Research, Pune is affiliated to Savitribai Phule Pune University(SPPU), and as such follows a predetermined syllabus set by the parent University. The college is bound to implement the same in innovative way through these established academic structures and is committed to provide holistic development of its students.

The academic process of the college is streamlined with the academic calendar provided by university through the Academic calendar of KJEI campus, academic calendar of college. Every department plans their co-curricular and extra-curricular activities according to these calendars.

The schedule for teaching, examination, semester break, vacations, etc. is strictly followed by the college to ensure smooth and efficient functioning of its academic and administrative processes.

The academic process includes the timetables, workloads, and other supporting administrative tasks. These processes are well planned in advance at the start of the semester.

The steps of processes are planned through the semester as given below.

1. Subject choice by faculty.
2. Subject Distribution
3. Preparation of Load Distribution
4. Timetable Preparation
5. Subject Preparation by Faculty
6. Academic Execution
7. Report Submissions
8. Report Compilation and Analysis

The student's attendance is specifically monitored by the Guardian Faculty Member, Class teacher, Departmental academic coordinator and respective heads of the department for effective delivery of the course content.

For the purpose of conducting Continuous Internal Evaluation, teachers prepare their schedule of teaching, class tests and assignments in accordance with their allotted time table keeping the academic calendar and planned co-curricular activities of the college in mind. The students are informed well in advance about the deadline for assignment submissions, dates for class tests and presentations, as well as their final internal assessment marks.

For continuous growth, our teachers regularly update their knowledge through active involvement in

Research and Faculty Development Programmes. They are also members of various bodies of the University contributing to curriculum reviews, assessment and evaluation. The college employs technologically enabled and well equipped infrastructure for everyone for an appropriate teaching learning process. Experiential learning for the students through laboratory practicals, Case Studies, internships, projects, and field trips is specifically facilitated. A library provides access to a vast repertoire of international and national journals, reports, books etc as well as e-resources to strengthen the teaching learning processes besides its academic credentials.

Through focused interactions, guidance offered by the teachers, feedbacks, the students are able to have their academic and other issues suitably addressed.

File Description	Document
Upload Additional information	View Document

1.2 Academic Flexibility

1.2.1 Number of Add on /Certificate/Value added programs offered during the last five years

Response: 26

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.2.2 Percentage of students enrolled in Certificate/ Add-on/Value added programs as against the total number of students during the last five years

Response: 22.1

1.2.2.1 Number of students enrolled in subject related Certificate/ Add-on/Value added programs year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
287	88	620	177	208

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Response:

The Institute makes every effort to augment the curriculum through varied activities that address cross-cutting concerns regarding a sustainable environment, gender equality, human values, and professional ethics in order to address the economic, social, and environmental challenges.

Professional Ethics: The students are trained to uplift their professional knowledge, making judgments, conducting soft skill programmes, apply their skills through various Training and placement activities. Institute implemented Earn and Learn scheme as per guidelines of SPPU, where students from economically weaker sections work for college and benefited through this scheme financially.

Gender Equality: The institution has formed a “Grievance Redressal Cell”. This committee provides an exclusive platform to women employees and girl students to discuss their grievances. This cell is committed to providing and upholding a work environment free from gender violence, sexual harassment, and gender discrimination for students, faculty, and support staff. The college organizes various programmes under the NSS so as to sensitize students about gender equality. Institute gives equal importance to all for all of its activities.

Human Rights: The College has formed an Anti-Ragging Committee. This committee consists of Principal, various nominee members and students. Ragging, a violation of basic human rights and principles is effectively controlled by this committee. A hostel Committee is formed to educate students and prevent ragging.

Environment & Sustainability: Apart from the curricular courses various activities are conducted through NSS to create awareness on environmental issues and its sustainability to society. The Institution has implemented rain water harvesting system.

File Description	Document
Upload Additional information	View Document

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for the latest completed academic year)

Response: 26.6

1.3.2.1 Number of students undertaking project work/field work / internships

Response: 307

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

1.4 Feedback System

1.4.1 Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website (Yes or No)

Response: Yes

File Description	Document
Upload supporting document	View Document

Criterion 2 - Teaching-learning and Evaluation

2.1 Student Enrollment and Profile

2.1.1 Enrolment percentage

Response: 23.25

2.1.1.1 Number of students admitted year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
222	170	87	71	103

2.1.1.2 Number of sanctioned seats year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
474	486	576	636	636

File Description

Document

Upload supporting document

[View Document](#)

Institutional data in the prescribed format

[View Document](#)

2.1.2 Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)

Response: 12.02

2.1.2.1 Number of actual students admitted from the reserved categories year - wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
64	57	25	16	26

2.1.2.2 Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
270	270	284	370	370

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.2 Student Teacher Ratio

2.2.1 Student – Full time Teacher Ratio (Data for the latest completed academic year)

Response: 18.03

2.3 Teaching- Learning Process

2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Response:

KJ College of Engineering, is focusing on student-centric methods such as experiential learning, participative learning, and problem-solving methods of the teaching-learning process. The following activities are being conducted by the college to make learning activities more student-centric.

1. Experiential Learning

- Laboratory Practical
- Case Study

The college has well-equipped laboratories to provide experiential learning. Both Laboratory Practice and Case studies are taken in the College as per the Savitribai Phule Pune University defined Syllabi. Laboratory practice is the way of doing experiments on different subjects and Case Studies of different subjects are taken in a few Departments, that help the students to experience the current situation that Engineers are currently facing in the real world. It involves practical courses of action that support to open up new directions for future research.

1. Participative Learning

- Seminar
- Workshop
- Field Visit/Industrial visit

- **Poster Presentation**

The College involves Participative Learning activities such as Seminars, workshops, Field visits, and Poster Presentations. A group discussion refers to a communicative situation that allows the students to share their knowledge with other students. Seminars and workshops are arranged for the students. The workshop provides hands-on sessions for the students. Field visits/Industrial visits are organized by the college to understand the theoretical concepts practically. A poster Presentation is conducted for the students to analyze their representative skills.

1. Problem-Solving Methodologies

- **Guest Lecture**
- **Assignment**
- **Paper Presentation**

As part of Problem-Solving Methodologies, College organizes Guest Lectures and assigns Assignments of different Subjects to the students. Guest Lecture is a concept that helps the students in gaining additional knowledge. Many students appreciate the concept of guest lectures as it is an interesting way of learning and interacting with new people at the same time. Such events and lectures help in enhancing the communication skills and many other skills of the students. Assignments are given to the students which help the students to focus on enhanced learning.

- Students get benefited from the College of Engineering Pune(COEP) mentorship by visiting COEP Laboratories as well as participating in various events and activities held at the COEP. It's a premiere Institute with 150 + years legacy.
- As a part of the Regular teaching-learning process, the college organizes guest lectures, workshops, seminars, and webinars by inviting experts from different domains.
- To aware students of industry-oriented technologies, the college has tied up with the Eduskill platform. They provide training to students, and through this Students acquire the knowledge of booming areas that will help them in their placement.
- All laboratories are well equipped with Wi-Fi connectivity and e-learning resources for experimental learning.
- During the pandemic, the teaching and learning process was done using ICT tools like Zoom, Google meet, and Microsoft Teams.
- Central Library helps the students to inculcate knowledge of their subjects with all e-resources.

File Description	Document
Upload Additional information	View Document

2.4 Teacher Profile and Quality

2.4.1 Percentage of full-time teachers against sanctioned posts during the last five years

Response: 65.49**2.4.1.1 Number of Sanctioned posts / required positions for teaching staff/ full time teachers year wise during the last five years:**

2021-22	2020-21	2019-20	2018-19	2017-18
107	118	151	151	154

File Description	Document
Upload supporting document	View Document

2.4.2 Percentage of full time teachers with NET/SET/SLET/ Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. during the last five years (consider only highest degree for count)**Response:** 9.87**2.4.2.1 Number of full time teachers with NET/SET/SLET/Ph. D. / D.M. / M.Ch. / D.N.B Superspeciality / D.Sc. / D.Litt. year wise during the last five years**

2021-22	2020-21	2019-20	2018-19	2017-18
13	9	9	7	6

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.5 Evaluation Process and Reforms**2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient****Response:**

- **Internal/External assessment**

1. The institute adheres to all University exam schedules in accordance with SPPU guidelines.
2. At the start of each academic year, the evaluation policy is established is based on the guidelines prescribed by SPPU, faculty recommendations and viewpoints of Students.
3. The examination marking scheme is available in the syllabus which is displayed on the noticeboard

as well in the hard copy available in the departmental library.

4. Students are prepared for the exam based on the exam pattern through practice sessions such as unit tests, mock tests, prelim, assignments, and mock practical sessions.
5. The results of the semester and online examinations are examined. The internal assessment of the student is done on the regular basis and by doing the internal evaluation.
6. The method of internal assessment is very much transparent. The format for the internal assessment mark is displayed on the notice board for the students. The marks are out of 25 or 50 as per the instructions of SPPU. The marks are divided into different categories i.e. Theory attendance, Practical Attendance, Unit test marks, Prelim marks, timely submission of the practical write-up. This distribution of marks is already known to the student's. Thus the mechanism of internal assessment is transparent and robust

• External/Internal Grievances-

The Internal/external examinations are held as per the guidelines of SPPU. The grievances raised by the students are solved immediately and the mechanism for this is transparent, time-bound, and is very efficient. The mechanism adopted is as follows,

- At the start of the semester the faculty tells the students about various components of assessments.
- The test scheduled is prepared in advance and are available in the academic calendar.
- To ensure proper conduct of exam an invigilator is appointed for every hall consisting of 30 students only. The assessment of the paper is done by the subject faculty within three days from the date of the exam.
- The answer papers are shown to the students for the marks; if any grievance is available it is addressed immediately.
- If any student is not able to appear for the exam due to any reason, his/her exam is conducted as per rules afterward provided he/she provides the valid document for remaining absent.
- The grievances of the students with reference to assessment are assessed by the faculty once again in the presence of the student.
- The Institute follows an open evaluation system where the student's performance is displayed on the notice board and the same is informed to the parents.

File Description	Document
Upload Additional information	View Document

2.6 Student Performance and Learning Outcomes

2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website and attainment of POs and COs are evaluated

Response:

The curriculum is developed by Savitribai Phule Pune University. It attempts to align the program structure and course contents to the requirements of the Engineering aspirants and the dynamic Engineering industry. The syllabus is revised by the university and has a good representation from the institute.

Program Outcomes and Course Outcomes for the program offered by the Institute are well defined, clearly stated and communicated to the teachers and the students and also available on the institute's website.

The objectives for the programmes are

- The basic objective is to provide the Engineering industry with a steady stream of competent and trained young men and women with the necessary knowledge, skills, values and attitude to occupy key operational positions.
- The relative importance of skills and ability development and attitudinal orientation in engineering education has been kept in mind while forming the structure to ensure that the knowledge and skills imparted are as desired globally.
- Web link: weblink of CO/PO

The Program Outcomes (POs) and Course Outcomes (COs) for the program are communicated to teachers and students in the following manner

- During the Induction Program Vision and Mission of the Institute are communicated to the students along with POs of the programme.
- The faculty members communicate and emphasize on their respective Course Outcomes during their classroom sessions.
- The faculty members prepare lesson plan keeping in mind POs, COs of the program and course content of the respective course.
- The syllabus designed by the university has well defined COs. These are communicated to the teachers in the meeting at the beginning of the semester.
- The CO/PO attainment is evaluated by every faculty for his/her subject.
- Web link: web of CO/PO attainment

File Description	Document
Upload Additional information	View Document

2.6.2 Pass percentage of Students during last five years

Response: 86.75

2.6.2.1 Number of final year students who passed the university examination year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
289	367	399	383	356

2.6.2.2 Number of final year students who appeared for the university examination year-wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
341	386	408	501	432

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

2.7 Student Satisfaction Survey

2.7.1 Online student satisfaction survey regarding teaching learning process

Response: 3.42

File Description	Document
Upload database of all students on roll	View Document

Criterion 3 - Research, Innovations and Extension

3.1 Resource Mobilization for Research

3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)

Response: 5.92

3.1.1.1 Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
0.74100	0.55720	2.50740	1.33168	0.78700

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.2 Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge

Response:

K.J. College of Engineering and Management Research has initiated a knowledge-creation and knowledge-transfer ecosystem by developing an incubation centre. The institution is continuously taking efforts to maintain a healthy ecosystem by inspiring staff as well as students to step up for innovative start up based project execution and participation in start-up competitions at regional and national level. Staff is geared up for solving the research based problems which in turn can help society for sustainable development in different fields.

- In the academic year 2021-22, our students successfully carried out research projects with the support of incubation and innovation lab on current technical issues of sustainable crop development with aquaponics and hydroponic systems. Few projects such as sustainable energy concepts of electricity generation from organic waste material and from used battery cells were completed at preliminary and laboratory scale level. Recent trends in research such as biofuel generation projects using plastic wastes and biodegradable wastes are under development.
- The innovation and incubation cell is continuously taking efforts particularly for students and pushing them to appear in different National and regional level project competitions and to publish research papers in reputed journals. One of the research based projects got runner-up award in national level start-up competition.

- The students are taking efforts to publish papers in the journals and one of such paper based on automatic vending machine, a start-up concept developed with AI technology, is accepted by springer journal. The innovation and incubation lab provides all the facilities with IOT tools and support of all the senior faculties to the students for execution of their innovative ideas.
- There are 7 patents filed and published by the staff and the centre has definitely triggered the spirit of the other staff to try their level best in the similar activities. Along with these efforts, the webinars, workshops and faculty development programs on intellectual property acts were arranged by the college.

File Description	Document
Upload Additional information	View Document

3.2.2 Number of workshops/seminars/conferences including on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship conducted during the last five years

Response: 65

3.2.2.1 Total number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
25	18	12	08	02

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

Response: 0.26

3.3.1.1 Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
10	2	12	12	6

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

Response: 0.04

3.3.2.1 Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
2	2	1	0	2

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.4 Extension Activities

3.4.1 Extension activities are carried out in the neighborhood community, sensitizing students to social issues, for their holistic development, and impact thereof during the last five years.

Response:

The Institute has carried out various activities through NSS in the neighbourhood communities and the students participated, successfully completed the following extension activities.

- **Extension activities in neighbourhood community:-**

Organizing blood donation camp in the college premises has been carried out regularly by the students of K.J. College. The activity has been supported by hospitals and NGOs. The students carried out these activities such as awareness of mask use in rural areas. The necessity of cleanliness for healthy environment was done through “shramdan and Swachha Bharat Abhiyan” activity in nearby villages.

Sensitizing students to social issues:-

Go cycle rally was an effort to spread the importance of physical fitness in the society. Tree plantation, a

regular activity carried out by students in the nearby village people, the importance of pollution free environment. Our lush green campus itself proves the efforts and awareness of our management in this section. The events like yoga day have helped the staff and the students to understand the importance of healthy and stress free living.

Holistic development:-

NSS special camp for rural development has made students aware of their role as a responsible citizen and their duties as a part of society. The programs like Savitribai Phule jayanti, Swami Vivekananda jayanti and Rajmata Jijau jayanti, Shivjayanti etc. are carried out regularly every year to make students aware of the work, devotion and dedication of such great people in overall development of the nation. Road safety awareness activity was carried out to make people aware of the risk and probable disasters they can face if not followed the road safety rules and practices.

Earlier in academic year 2020-21, grocery kit distribution to poor and aboriginal families was carried out in the same village Pimple through NSS. The NSS group stepped up to support the people and following the government rules and regulations, the grocery kits were distributed to the affected families. The campaign was well appreciated by the “Grampanchayat” of the village.

In 2019-20, a special NSS camp was arranged with the main objective of inspiring village people to change their vision and approach about the superstition and other social issues. The students carried out activities like “Prabhat pheri” with variety of slogans with the lines those addressing the social issues. Thus the activity clearly aimed “Andhashradhha nirmulan” in rural area. A lecture of an experienced and dedicated person working in the “Andhashradhha nirmulan” activities named Nandini Jadhav was arranged to counsel the people for changing their mind-set towards this social issue. The activity was well appreciated by the “Grampanchayat” of the village. Supporting activities like village cleaning, painting of houses and temples, tree plantation, cleaning and conservation of “sarni” (the place of the source of water) were carried out with equal dedication and hard work by the NSS group.

The blood donation activity was carried out on 24th January 2020 with the help of the well-known hospital in Pune, named “Sasoon hospital”. Eighty five students donated their blood. The effort was appreciated by the hospital management.

File Description	Document
Upload Additional information	View Document

3.4.2 Awards and recognitions received for extension activities from government / government recognised bodies

Response:

Sr. No.	Year	Activity	Appreciated

01	2021-22	NSS special camp for rural development	Pimple vi of Maharas
02	2021-22	Grocery kit distribution to poor and aboriginal families	Pimple vi of Maharas
03	2019-20	Superstition and other social issues	Pimple vi of Maharas
04	2020	Blood donation	Sasoon ho Hospital)
05	2018	Blood donation	Acharya A Pune blood
06	2017	NSS special camp	Wathar Bhor

- The Institute has received appreciation letters for the remarkable work through the extension activities carried out by in accordance with NSS, SPPU Pune. The NSS special camp for rural development in academic year 2021-22 was organized at Pimple village in Purandar taluka, Pune. The camp was arranged to inculcate an experience of carrying out social service independently to the students along with the awareness of environmental conservation.
- The students got opportunity to test their ability of spreading awareness like gender equality, soil and water conservation and renewable energy sources. Some of the activities such as “Prabhat pheri”, road cleaning, school cleaning, temple cleaning, water resource conservation and cleaning, Smashan bhumi cleaning, sports activities in schools, woman’s day for empowerment and gender equality and village cleaning were carried out by students with full dedication.

File Description	Document
Upload Additional information	View Document

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

Response: 32

3.4.3.1 Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
06	10	08	06	02

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

3.5 Collaboration

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Response: 11

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 4 - Infrastructure and Learning Resources

4.1 Physical Facilities

4.1.1 Availability of adequate infrastructure and physical facilities viz., classrooms, laboratories, ICT facilities, cultural activities, gymnasium, yoga centre etc. in the institution

Response:

The institute has essential infrastructure required for effective teaching-learning (T-L) process, co-curricular and extra-curricular activities to fulfil the norms laid by the AICTE, DTE, SPPU. The available facilities are enhanced by addressing the needs of students and faculty members to support T-L and Research and Development activities.

Physical infrastructure consists of 31 (UG+ PG) classrooms, 10 tutorial rooms, 51(UG + PG) laboratories, 01 Computer center and 01 seminar hall etc. In addition, the institute has supporting academic and administrative rooms. Classrooms and seminar halls have adequate ventilation and illumination and are equipped with audio-video system, LCD projector, internet connectivity. Each department has well-equipped laboratories and a departmental library.

The available physical infrastructure is optimally utilized beyond regular institute hours, to conduct certificate courses, co/extra-curricular activities, training classes, campus recruitments, meetings, seminars, conferences etc. All the departments have well-furnished separate cabins for the faculty members with the atmosphere conducive for regular interaction with the students who come for counselling, guidance and discussions. Institutes also have Medical room, Girls Common room, Boys Common room.

Laboratories are equipped with state-of-the-art facilities. Latest software such as MATLAB, MultiSim Live, Master CAM, etc. The charts and models are displayed in the laboratories for better understanding of theory and practical concepts. Laboratories are regularly maintained and updated. Equipment is calibrated on a regular basis.

Institute has Incubation center—for prototyping, production and marketing for innovative projects. Some projects of incubation and research are ongoing at the state of art developed 'Research, Innovation and Incubation center' of the Institute.

Workshop consists of different facilities for imparting practical skills in such as milling, fitting, carpentry, welding, drilling, Lathe Machine, Turning Machine etc.

For Internet access and computing purpose, the institute has massive network of 531+ Computers with 200Mbps bandwidth with 100Mbps backup line.

Enterprise Resource Planning (ERP) is deployed for effective academic planning, execution, monitoring and analysis. ERP software is used for automation of academic and administrative processes used in the institute, to maintain and analyse the data related to various processes of institute.

Training and Placement (T & P) cell has adequate infrastructure for training and placement

activities.

For the physically impaired (Divyangjan) students, the institute has ramp, wheel chair, and washroom with necessary facilities

File Description	Document
Upload Additional information	View Document

4.1.2 Percentage of expenditure, excluding salary for infrastructure augmentation during last five years (INR in Lakhs)

Response: 5.01

4.1.2.1 Expenditure for infrastructure augmentation, excluding salary during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
10.77	17.85	11.60	23.94	24.53

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

4.2 Library as a Learning Resource

4.2.1 Library is automated using Integrated Library Management System (ILMS), subscription to e-resources, amount spent on purchase of books, journals and per day usage of library

Response:

Integrated Library Management System is used to manage different functions of the library. Institute Central Library is using commercial software. Library is fully automated (yr of automation 2011) with System for Library Information Management (SLIM21) software having version 3.9.0. Library collection can be browsed / searched on Intranet using the SLIM21 OPAC module.

SLIM21 cataloguing adheres to popular international standards. With SLIM21 retrieval of information is simple, fast and efficient. SLIM21 supports flexible workflow to cover activities related to acquisition of books, serials control, and funds monitoring. This software has modules like Acquisition, Cataloguing, Circulation, Serial Control. Acquisition modules & Cataloguing Module is utilized for generating accession register reports, adding Bulk student's record, updating item lending policy and its status.

Circulation module has books issue, return, and reserve options. Similarly, library barcodes are also generated through this module making cumbersome library work simpler, effective, and time is saving. SLIM21 software also provides statistical analysis required for Library Management systems such as weekly transitions, most issued items, less issued items, reference books, Books sent for binding.

This software is purchased from Algorithms consultants Pune, They provide online and offline support for software problems, proper backup, and maintenance of software during the annual maintenance contract period.

The Library has subscribed to e-journals and scientific database such as IEEE, Knimbus, Delnet. These Journals can be accessed at digital Library Section and through the Institute Network. The Institute is a member of the shodhganga thesis repository through Savitribai Phule Pune University also We are having the membership of e-shodhsindhu.

File Description	Document
Upload Additional information	View Document

4.3 IT Infrastructure

4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

Response:

In this electronic communication era, internet communication is very important in the teaching learning process. To fulfill the norms of AICTE and University, the institute has very strong IT infrastructure. Our classrooms are equipped with LCD projectors and supported by audio / visual systems. The entire campus is monitored by CCTV cameras installed at strategic places.

The institute has massive network of 531 computers with 200 Mbps fiber optic internet connectivity along with standby 100 Mbps backup link and Wi-Fi facility with public and private connectivity. Centralized firewall “SophosXG” is used for network monitoring, management and internet security. All floors and computer laboratories are connected with 300 Mbps bandwidth. Uninterrupted power supply (UPS) is available in all computer laboratories.

Open source and latest software such as ,MatLab,Multisim Live, MasterCAM,etc. are available in laboratories. Institute has licensed MS Office software for conduction of online classes and meetings. Two servers are available for smooth conduction of various activities such as online examinations, webinars, online workshops, virtual lab, etc.

Enterprise Resource Planning (ERP) is deployed for effective academic planning, execution, monitoring and analysis. ERP software is used for automation of academic and administrative processes used in the institute, to maintain and analyze the data related to various processes of the institute.

Computers with internet connection are made available to all the faculty members at their respective

locations.

The institute has a separate centralized maintenance system in order to support the IT infrastructure, campus facilities and equipment. All the IT facilities are periodically updated. Details of the same are given in the document of additional information.

File Description	Document
Upload Additional information	View Document

4.3.2 Student – Computer ratio (Data for the latest completed academic year)

Response: 2.79

4.3.2.1 Number of computers available for students usage during the latest completed academic year:

Response: 413

File Description	Document
Upload supporting document	View Document

4.4 Maintenance of Campus Infrastructure

4.4.1 Percentage of expenditure incurred on maintenance of infrastructure (physical and academic support facilities) excluding salary component during the last five years (INR in Lakhs)

Response: 89.16

4.4.1.1 Expenditure incurred on maintenance of infrastructure (physical facilities and academic support facilities) excluding salary component year wise during the last five years (INR in lakhs)

2021-22	2020-21	2019-20	2018-19	2017-18
219.20	141.48	188.17	506.42	523.03

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 5 - Student Support and Progression

5.1 Student Support

5.1.1 Percentage of students benefited by scholarships and freeships provided by the Government and Non-Government agencies during last five years

Response: 76.5

5.1.1.1 Number of students benefited by scholarships and freeships provided by the Government and Non-Government agencies year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
1093	860	803	941	1079

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counselling offered by the Institution during the last five years

Response: 47.33

5.1.3.1 Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
813	1055	695	224	168

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.1.4 The Institution has a transparent mechanism for timely redressal of student grievances including sexual harassment and ragging cases

- 1.Implementation of guidelines of statutory/regulatory bodies
- 2.Organisation wide awareness and undertakings on policies with zero tolerance
- 3.Mechanisms for submission of online/offline students' grievances
- 4.Timely redressal of the grievances through appropriate committees

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

5.2 Student Progression

5.2.1 Percentage of placement of outgoing students and students progressing to higher education during the last five years

Response: 28.26

5.2.1.1 Number of outgoing students placed and / or progressed to higher education year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
159	104	117	76	51

5.2.1.2 Number of outgoing students year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
289	367	399	383	356

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.2.2 Percentage of students qualifying in state/national/ international level examinations during the last five years (eg: JAM/CLAT/GATE/ GMAT/ CAT/ GRE/ TOEFL/ Civil Services/State government examinations)

Response: 56.25

5.2.2.1 Number of students qualifying in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT/GRE/ TOEFL/ Civil Services/ Judicial Services/Public Prosecution services/All India Bar Exams/State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
01	02	03	02	01

5.2.2.2 Number of students appearing in state/ national/ international level examinations (eg: JAM/CLAT/NET/ SLET/ GATE/ GMAT/CAT,GRE/ TOFEL/ Civil Services/ State government examinations) year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
03	04	03	03	03

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3 Student Participation and Activities

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

Response: 3

5.3.1.1 Number of awards/medals for outstanding performance in sports/cultural activities at

national/international level (award for a team event should be counted as one) year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
01	0	01	01	0

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.3.2 Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

Response: 2.4

5.3.2.1 Number of sports and cultural programs in which students of the Institution participated year wise during last five years

2021-22	2020-21	2019-20	2018-19	2017-18
03	02	02	02	03

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

5.4 Alumni Engagement

5.4.1 There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Response:

The alumni association of the institute was registered in the Academic Year 2016-17

(Reg.No. Mah/1150/2016/Pune).

The institute is well aware that the alumni are current and future leaders, influencers and change makers. The Alumni Association contributes in many ways for the development and betterment of our

institute. We conduct Alumni meets for the engagement of alumni wherein they can participate and share their experiences, success with the current students and teachers. Also we prepare success stories of our pride alumni and circulate them in social medias so that current students will get motivated. Also we have conducted the Alumni Webinar Series on different topics in which our alumni guide current students. Our Alumni also help in campus placement. It's our aim to develop everlasting relations with our alumni which in turn gives rise to mutual benefits.

Following activities / events were conducted,

1. Webinar by Mr. Ashish Panaskar on the topic of "Opportunities and Challenges in Electrical Contractor" by Electrical Dept on 07/11/2020.
2. Webinar by Mr. Balram Jadhav on the topic of "Preparation for State Government Examination" by Electrical Dept on 30/06/2020.
3. E-Alumna meet was conducted by Electrical Department on 30/08/2020 for Batch.
4. Webinar by Mr. Pranesh Dhoka on the topic of "Importance of Skill Set in Career" by E&TC Dept on 31/08/2020.
5. Webinar by Mr. Aditya Sabnis on the topic of "New Embedded Environment and its Application" by E&TC Dept on 25/07/2020.
6. Webinar by Mr. Swapnil Kale on the topic of "How to Enhance the Knowledge of Fresher's According to the Market Standards" by Computer Dept on 25/07/2020.
7. Webinar by Mr. Shirish Bhosale on the topic of "Product Development and Trending Technology" by Computer Dept on 09/06/2020.
8. Webinar by Mr. Jay Kor on the topic of "Career opportunities in ERP system for Engineering students" by Computer Dept on 21/09/2020.
9. Webinar by Mr. Chinmay Gadgil on the topic of "Digital Marketing" by Computer Dept on 30/10/2020.
10. Webinar by Mr. Mohan Patil on the topic of "Preparation for GATE Examination (Civil Engineering)" by Civil Department
11. Webinar by Mr. Akshay Pophaliya on the topic of "work phases in industrial building construction" by Civil Department
12. Webinar by Mr. Chinmay Gadgil on the topic of "Digital Marketing" by Computer Dept on 30/10/2020.
13. Webinar by Mr. Sidharth Bagawade on the topic of "Career opportunities in SAP" by Mechanical Dept on 11/07/2020.
14. Webinar by Mr. Saurabh Saraf on the topic of "Pivotal to success of organization" by Mechanical Dept on 25/07/2020.
15. Webinar by Mr. Swapnil Jawale on the topic of "Recent trends in PLM" by Mechanical Dept on 14/09/2020.
16. Webinar by Mr. Shailesh Singh on the topic of "Career opportunities in software domain for Mechanical engineer" by Mechanical Dept on 19/09/2020.
17. Webinar by Mr. Sujeet Kadam on the topic of "GATE 2021, Preparation strategy & guidelines" by Mechanical Dept on 24/10/2020.
18. Webinar by Mr. Sameer Hanegaonkar on the topic of "Career Opportunities in Piping Design Engineer" by Mechanical Dept on 09/01/2021.

Mr. Swapnil Jawale (2013-14 Batch) Alumni of Mechanical Engg. Dept. Donated GATE/IES Book Sets to Dept. Library on 09/11/2021.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

Criterion 6 - Governance, Leadership and Management

6.1 Institutional Vision and Leadership

6.1.1 The governance and leadership is in accordance with vision and mission of the institution and it is visible in various institutional practices such as decentralization and participation in the institutional governance

Response:

The Vision and Mission statement of the Institute are as follows:

VISION

“To be a premier knowledge centre of the nation for socio-economic development.”

MISSION

"To provide education that combines rigorous academics with joy of discovery through sustained efforts and dynamic strategies in building innovative, participatory, problem-based learning practices and research that leads to capacity building of the students."

The ideals of the institute include teamwork, morale, principles, trust, social benefits and industrial development. Methodology, institute-industry relations, dedicated faculty, industry standards, research and involvement in the continuous learning of all members, working together to help the institute to achieve its vision and mission.

The Governance of the institute involves Governing Body (GB), College Development Committee (CDC), Internal Quality Assurance Committee (IQAC). The Management, IQAC, Principal and all Central Committee includes Chairman, teaching staff, non- teaching staff so that all the representative involves in generating ideas and suggestions for the development of institute and the betterment of the employees of the institute with consideration and respect in tune with the Vision and Mission of the Institute.

The institute has consistently promoted the decentralization process by following the committee system to implement all its decisions and resolutions. The committees comprise of faculty members and students. GB and CDC have representation from faculty and other stakeholders.

Case Study: International Conference on Innovative Trends in Engineering and Technology [ICITET-2022]

Date: 28th & 29th July 2022

Aim & Objective of the Conference: The Conference is aimed to bring together inquisitive academicians, industry experts, researchers and practitioners and students to share their innovative and revolutionary ideas, resolving significant issues, and contributing towards inculcating a healthy and coexistent learning ambience.

The organising team along with the internal advisory committee has executed the action plan of

International Conference in the supervision of conference convenor and coordinator under the guidance of Principal as patron and the representatives of management as chief patron. All the financial transactions are proposed by the conference coordinator monitored by Principal and approved by Executive Director and President. The intention of the organising committee includes faculty members and students are holding meetings and discussing their ideas and strategic plans to ensure that activities run well. The outcome of the decentralized process resulted into total 118 Research papers were received for the conference and 85 papers were shortlisted by the committee. The conference has successfully completed with the constant support of all associated stakeholders. A closing meeting is conducted for sharing experience & feedback from all coordinators for further improvement.

The following committees were formed

Sr. No.	Name of Committee/Head of responsibility	Participative team	
1	Chief Patron	Management representatives	
2	Patrons	Head of Institute	
3	Conference Convener	HoD	
4	Coordinator	Faculty Member	
5	National & International Advisory Committee	Esteemed Academicians and Industry P	
6	Internal Advisory Committee	HoD & Senior Faculty Members	
7	Organizing committee	Faculty Members & Students	

File Description	Document
Upload Additional information	View Document

6.2 Strategy Development and Deployment

6.2.1 The functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment and service rules, procedures, deployment of institutional Strategic/ perspective/development plan etc

Response:

The institute has a well-established administrative setup. Several committees are formed at the institute level for appropriate coordination of the activities.

Some of the committees for internal coordination and monitoring are listed below:

1. IQAC Committee
2. Library Committee
3. Grievance Committee
4. Anti-Ragging Committee
5. Women's Grievance Committee
6. SC/ST Committee
7. ICC Committee
8. NSS Committee
9. Alumni Committee

10. Sport & Cultural Committee

KJCOEMR has a perspective plan to achieve its Vision and Mission for the development of students and faculties through various skill enhancement activities for students and training programs for faculties' etc. The institute is always looking for improvement in students' quality to make them employable resulting in good placements. It is developed by the Principal under the guidance of GB and CDC. The major area in the strategic plan of the institute includes the following initiatives for the fulfillment of perspective plan:

1. Value-added Programs for Students (Student Training Program) –

The main focus is on Aptitude and logical Training, Personality Development, Behavioral skills, Group Discussion and Personal Interviews, etc under well-established T&P cell.

2. Improvisation of life skills through other activities –

Conduction of activities like Yoga sessions, Meditation sessions, Stress management, Blood donation camp, Mega cleanliness drive under NSS. These initiatives help the students to develop their life skills.

3. Faculty development (STTP & FDP) –

The institute conducts various activities in the form of STTP and FDP for the development of faculties in various departments.

All the departments have their Head of Department to keep a check on academics for the effective and efficient performance of the department. The institute has a well-designed website that displays all the important information such as Placement activities and regular updates about the student's and faculty's achievements.

The institute has a Chief Examination Officer (CEO) for the smooth conduction of internal as well as university examinations.

The institute has various administrative sections headed by the Office Superintendent for the smooth functioning of the administrative setup. The establishment section looks after the faculty recruitment, and implementation of various HR policies. The student section looks after the allotment of roll numbers, and collection and issuing of documents like a bonafide, leaving certificate etc. The scholarship section looks after various public and private scholarship schemes for the benefit of eligible students. The accounts department looks after fee collection from students, salary disbursement of employees, maintaining records of all and other financial transactions like purchases, bill settlements etc.

File Description	Document
Upload Additional information	View Document

6.2.2 Implementation of e-governance in areas of operation

1. Administration
2. Finance and Accounts
3. Student Admission and Support
4. Examination

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

6.3 Faculty Empowerment Strategies

6.3.1 The institution has effective welfare measures and Performance Appraisal System for teaching and non-teaching staff

Response:

Institute is providing various welfare schemes for teaching and non-teaching staff, which

Include:

- 1. Employee Provident Fund:** Staff members eligible and entitled to PF facility is being provided with the same.
- 2. Medical Leave:** All staff members are eligible for sanction of 10 days of medical leave for each completed year of service. They are permitted to accumulate these leave for up to a maximum of 60 days.
- 3. Maternity Leave:** The leave as applicable by law is applicable to all the married women members of staff appointed on regular basis. Maternity leave shall be granted for a maximum period of 6 months.
- 4. Special Leaves (Early /late coming):** Provision of flexible office timing in certain cases by approval of the Principal.
- 5. On duty leave:** For attending different workshops, FDPs, seminars, etc on-duty leaves are provided to faculties
- 6. Study Leave:** Provision of study leave for higher studies by approval of the Principal.
- 7. Appreciation to faculties:** The faculties are appreciated for doing special work
- 8. Qualification upgradation support:** The faculties are encouraged for higher qualifications.
- 9. ATM:** In-campus ATM facility of Union Bank of India is available.
- 10. Birthday wishes:** Birthday celebration for all the employees is carried out .
- 11. Festival Celebration:** Various festivals are celebrated in the institute to strengthen the bond between

all employees.

11. Advance salary: In need, the institute always supports to its employees by giving advance salary.

12. Stress Relief Sessions: Yoga is an practice that builds strength, and awareness and brings together the mind and body. It includes breathing exercises, meditation and asanas that stretch various muscles. So on the occasion of International Yoga Day K J College of Engineering & Management Research, has celebrated yoga day on 21st June 2022 to improve students' concentration & strength. The students from all disciplines participated in the event. Trainer Dr. B.S Waghe started with some simple and beginner asanas.

13. Group Insurance Scheme: A group insurance Scheme offers advantages of standardised coverage at very competitive premium rates over a larger number of people.

Performance Appraisal System:

For teaching and non-teaching staff, the institute has built an effective performance review system. The faculty appraisal method is open and transparent, and it gives clear guidance for achieving professional, organizational, and personal goals. After each academic year, the staff must submit a "Self-appraisal form," which is then assessed by the Principal. Staff members submit a "Self-appraisal form" to the Principal at the end of each academic year. The 'Self-appraisal form' is then certified by the Principal and submitted to IQAC. IQAC reviews the same and gives recommendations/improvements to be followed by staff. The strengths and weaknesses of staff are counselled by Principal / IQAC. The various parameters for staff members are performance; technical and non-technical skills acquired, Research work, and successful completion of the assigned responsibilities.

Outcome: - The best part of the Performance Appraisal System is

- 1) Best qualities of staff are explored.
- 2) Motivation for upgradation.
- 3) Making the system stronger.

File Description	Document
Upload Additional information	View Document

6.3.2 Percentage of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies during the last five years

Response: 23.99

6.3.2.1 Number of teachers provided with financial support to attend conferences/workshops and towards membership fee of professional bodies year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
15	5	11	10	66

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

6.3.3 Percentage of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

Response: 52.44

6.3.3.1 Total number of teaching and non-teaching staff participating in Faculty development Programmes (FDP), professional development /administrative training programs during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
69	52	53	35	81

6.3.3.2 Number of non-teaching staff year wise during the last five years

2021-22	2020-21	2019-20	2018-19	2017-18
19	22	22	21	23

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document
Institutional data in the prescribed format	View Document

6.4 Financial Management and Resource Mobilization

6.4.1 Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)

Response:

The institute receives funds mainly from student fees and government and non-government scholarships and free ships, Alumni fees etc. Any shortfall/deficit is managed by taking assistance from the KJEI trust office. The annual financial budget for different activity sectors is approved by Governing Body suggested by the Principal. The budget plan is prepared on the basis of 1) Estimated cash inflow from student fees, governmental and nongovernmental scholarships and free ship, and Funding from Savitribai Phule Pune University (like Exams, grants etc.) Alumni fees, interest from banks and other financial resources. 2) Estimated outflow is based on pre-planned activities, maintenance, administration & office expenses, a new purchase, loan repayment, etc. 3) Any shortfall/deficit is managed by taking assistance from the trust office. The cash inflow/outflow on the basis of student intake, faculty requirement, lab and library equipment need, maintenance, administrative and infrastructural needs are maintained by the Accountant and monitored by the Principal. All financial transactions are recorded on Tally software. Financial progress and updates are regularly communicated to Principal and Management. Deficit due to inflow and outflow if any is monitored by CDC and GB to examine the possibility of increasing cash inflow and reducing outflow by balancing some demands and needs.

Events/Activity: The institute prepares a budget for the event under authentication from Principal . The budget is forwarded to Management for sanctioning and final approval through the account section. The sanctioned amount is utilized for event expenses.

Purchase: For any major & minor purchase requirements, the Institution Head initiates purchase requisition to management along with different quotations.

The institution conducts internal and external financial audits regularly during the year with the mechanism for settling audits. Regular Internal and External audit helps to keep track of expenditures and Sanctioned budget.

The institute has well-structured mechanisms for internal and external audits. Internal audit is carried out periodically within the institute. External agencies visit and an External audit is carried out once in a year. Institute has also a well-defined policy in concern with management policy for handling the available financial resources.

At the start of every financial year, the estimated budget from Institute is collected. This estimated budget is based on the requirements raised by the individual faculty and staff as per the requirements of the syllabus and pre-planned Curricular and co-curricular activities in consultation with the Principal.

Budgeted expenses are compared with projected revenues and necessary modifications are done as and when required. Urgent and unpredicted expenses are catered with discussion with the Director. The Top Management has a well-defined procedure to monitor the effective and efficient utilization of available resources for infrastructure, development, and the teaching-learning process. All the major financial transactions are monitored by the Accounts and approved by the President and/or Secretary.

Objections: Any minor queries during the internal Audit program are rectified at the time of the audit. No major objections are observed in any financial year Audit program. Any queries during the External Audit Program are resolved during the External Audit Program.

File Description	Document
Upload Additional information	View Document

6.5 Internal Quality Assurance System

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Response:

The institutes Quality Policies are aimed at achieving the excellence in Engineering Education, by acquiring independent control over its day-to-day operations and curriculum status to the institutes with recognition at State level.

IQAC Policy:

1. Development of faculties through FDPs.
2. Optimization and integration of modern methods of teaching and learning.
3. Progression of academic policies.
4. Up gradation of Concurrent evaluation.
5. Collecting feedback from students (At the end of semester).
6. Augmentation in infrastructure to enhance learning environment

IQAC Contribution: High level of clarity and focus in institutional functioning towards quality enhancement and facilitate internalization of the quality culture as per guidelines by NAAC for Quality and Excellence in Higher Education

Integral approach towards Quality development through various activities which helps in academic enhancement

Act as a change catalyst in the institution

Better internal communication.

Collaborations with various industries/organizations.

Organization of events/workshop.

Implementation of Academic calendar prepared by Academic coordinator.

Finalization for panel of eminent visiting professor for addition input as per need.

Remedial classes for slow learners.

Research Initiative by IQAC

1. Faculty qualification up gradation is encouraged to pursue M.Phil. , Ph.D.
2. Various types of research activities are organized for staff and students.
3. Financial support for attending national and International Seminars, Workshops, Conferences etc., to enhance research skills is provided to the faculty members.
4. Faculty members are allowed to utilize infrastructure, ICT enabled services (LCD, LAN, Wi-Fi, Audio Visual aids) to carry out research activities

Since faculties are the honourable members of the IQAC, each and every decision taken by the IQAC is communicated in regular meetings. So, each faculty is involved indirectly in functioning of IQAC. As our institution is functioning towards the enhancement of quality of education, it has an integrated framework for Quality assurance of the academic and administrative activities.

The course file content includes syllabus, teaching plan, academic calendar, time table, study material, assignments, question bank, university question papers. Academic committee checks this course file at the beginning of the semester and suggestions are given to the respective faculty. The essential contents are circulated to the students. Faculty uses that content for conducting the sessions during that semester.

Feedback from students of individual faculty depending upon various teaching parameters like effective teaching learning methods, audibility, writing, conceptual explanation, communication, interaction, presentation is taken. Student gives their opinions regarding academic and administrative method during Mentor mentee meeting.

Depending upon students' feedback and feedback from IQAC directs the suggestions for improvement of teaching learning process. After every academic year, staff fills an appraisal form with Principal remark; this appraisal form is submitted to IQAC. Depending upon this, IQAC welcome the efforts taken by staff and give suggestion wherever necessary.

IQAC also takes feedback from Stake holders such as Industry, Parents, Alumni, and Experts etc. Our major recruiters convey the gaps present in today's educational system and modern management practices in the industries to the Training and Placement Officer (TPO).

File Description	Document
Upload Additional information	View Document

6.5.2 Quality assurance initiatives of the institution include:

- 1.Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analysed and used for improvements**
- 2.Collaborative quality initiatives with other institution(s)/ membership of international networks**
- 3.Participation in NIRF**
- 4.any other quality audit/accreditation recognized by state, national or international agencies such as NAAC, NBA, ISO Certification etc**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document
Institutional data in the prescribed format	View Document

Criterion 7 - Institutional Values and Best Practices

7.1 Institutional Values and Social Responsibilities

7.1.1 Measures initiated by the Institution for the promotion of gender equity and Institutional initiatives to celebrate / organize national and international commemorative days, events and festivals during the last five years

Response:

Gender equity is the process of being fair to women and men which is a solution for addressing imbalanced social systems. Institute provides equal opportunity to male and female staff/students in all activities and processes which includes administration, teaching, co-curricular, extracurricular, committees, etc. Various committees like Women's Grievance Committee, Internal Complaint Committee, Grievance Redressal Committee, and Anti-Sexual Harassment Committee were formed for the female student and staff to prohibit unfair and biased things with them on the basis of gender. In those committees, adequate representation is given to women. Anti Ragging Committee and 24 X 7 security with CCTV surveillance make campus harassment free. The college has a separate common room for girls and boys. Slogans are displayed in the college to create awareness about gender equity. Every year women's day is celebrated in the college to salute the women for their contribution to society.

National Service Scheme (NSS) and Women Development Cell organize various activities in which female and male students participate. K J Kalatmak Art Circle performed plays like "Shirista ", "Lagin Ghai Ani Barach Kahi" to raise awareness in society towards gender biases.

Our Institute organizes national and international commemorative days. Also celebrates festivals and the birth anniversaries of great Indian personalities.

Independence Day and Republic day: The Institute celebrates Independence Day on 15th August and Republic day on 26th January of every year with a simple and elegant flag hoisting ceremony.

Engineers day: The birth Anniversary of Bharat Ratna, Sir Mokshagundam Visvesvaraya is celebrated on 15th September as Engineers day to show exceptional gratitude to the best Indian Engineer.

Teacher's Day: On the occasion of the birth anniversary (5th September) of Dr. Sarvpalli Radhakrishnan, the second President of India, a great teacher, and a staunch believer in education, the institute celebrates Teacher's Day.

International Women's Day: The Institution celebrates women's day on 8th March by inviting women from diverse fields to encourage and motivate both girl students and women faculty members to become more effective in their professional and personal lives.

International Yoga Day: Yoga Day is celebrated in the campus by students and staff on 21st June to understand the benefits of yoga.

Chhatrapati Shivaji Maharaj Jayanti: The Great Maratha Emperor- Chhatrapati Shivaji Maharaj's birth anniversary is celebrated on 19th February every year.

Savitribai Phule Jayanti: Savitribai Phule is the first woman teacher in India. She was an Indian social reformer and educationist. Institute celebrates Savitribai Phule Jayanti on 3rd January to salute her work.

Dr. Babasaheb Ambedkar Jayanti: Dr. Babasaheb Ambedkar was one of the architects of the Indian Constitution. Institute Celebrates Dr. B.R. Ambedkar Jayanti (14th April) every year.

Mahatma Gandhi Jayanti: The Institution celebrates Mahatma Gandhi's Birth anniversary (2nd October) to remember the father of our nation.

Our staff and students also celebrate Diwali, Ganesh Festival, and Dussehra in our campus. Khande Namvi pooja is done in each department and in the college library to preserve our cultural tradition.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.1.2 The Institution has facilities and initiatives for

1. Alternate sources of energy and energy conservation measures
2. Management of the various types of degradable and nondegradable waste
3. Water conservation
4. Green campus initiatives
5. Disabled-friendly, barrier free environment

Response: A. 4 or All of the above

File Description	Document
Upload supporting document	View Document

7.1.3 Quality audits on environment and energy regularly undertaken by the Institution. The institutional environment and energy initiatives are confirmed through the following

- 1.Green audit / Environment audit**
- 2.Energy audit**
- 3.Clean and green campus initiatives**
- 4.Beyond the campus environmental promotion activities**

Response: A. All of the above

File Description	Document
Upload supporting document	View Document

7.1.4 Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic diversity and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)

Response:

An inclusive environment plays a vital role in promoting tolerance and harmony as a responsible citizen. Institute takes the following initiatives for harmony, cooperation, core values with dignity, diversity, and inclusiveness.

Cultural:

The college organizes theme-based cultural programs titled “Malhar” to celebrate the cultural diversity of India. Students showcase their talent with regional songs, dance, and plays.

Initiatives through NSS:

Every year a 7-day NSS Special Camp is organized for the students to serve on various social issues in different villages with the aim of communal upliftment and understanding the lives of people in that region. Blood donation camp organizes in association with various Blood Banks in Pune. It helps in inculcating a sense of social responsibility among the students.

Street plays based on Cleanliness, Women Empowerment, Democracy awareness, and so forth are

performed for social awakening. Our Institution donated necessary materials like face masks, oxy - meters and sanitizers, etc. to Pune Police and needy people in nearby villages during Covid-19 (masks were prepared by the NSS team).

Other Initiatives:

KJCOEMR faculty members were sent for Oxygen Audit in Hospitals under Pune District at Bhore Taluka. Slogans, messages, and the Preamble of Indian Constitution displayed in college attract attention and also influence our thoughts or actions. Playing the National Anthem (reflects the history, traditions, and composite culture of India) and prayer (inspires to improve human values and professional ethics) daily in the morning.

Linguistic:

We celebrate Marathi Bhasha Diwas, Library reading day, Cultural Programs, etc. with our diversified students. The library also maintains a good collection of books published in various languages.

Socio-economic:

Many students benefitted from KJEI Scholarship and other non government agencies with the help of institute. Institute follows the admission process as per reservations for seats allotted by the government. The NSS team distribute groceries to poor and socially deprived villagers during pandemic. Also sent food, clothes, and other essentials in flood affected area.

Sensitization of stakeholders towards the Indian constitution is carried out through:

Institute celebrates Republic Day, Constitutional day, and Lokshahi Pnadhawada. The preamble of constitution and fundamental duties and responsibilities are showcased in college with the aim to imbibe its value and knowledge of rights and duties of the citizen.

Universal Human Values & Ethics:

The institute imparts these principles to the students at FE level itself during FE induction program to promote the sensitization of students towards social harmony.

Student participates in organizing and demonstrating their roles and responsibilities through the smooth operation of cultural and festival activities. This process strengthens leadership, democracy, and a sense of governance. Research methodology subject taught to postgraduate students to understand the ethics in research and their contribution to society.

Activities for Duties and responsibilities of citizens

The tree plantation, road safety and traffic rule awareness, organize blood donation camps, and street plays such initiatives taken by the NSS. Students are encouraged to active participation in these activities. Through this students are encouraged to Sustainable & safe environment, spreading awareness among citizens on social issues.

File Description	Document
Upload Additional information	View Document
Provide Link for Additional information	View Document

7.2 Best Practices**7.2.1 Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual****Response:****Best Practice 1****Title: Student Training Program**

This program is to enhance the quality of the students by empowering them with skills that are needed globally.

Objectives of the Practice:

- To enhance employability skills.
- To prepare students for entrepreneurship.
- To prepare students for higher education in India and abroad.

The Context:

Training programs play a crucial role in shaping the career growth of students. Student training program bridge the gap between institute and companies. Technical, Aptitude and Soft Skill Training are necessary for students to update their knowledge according to the market need for placement. It also helps to improve confidence of students to face the interviews. The student training program is essential for the students to sharpen their skills and secure placement in the best company.

The Practice:

It has been started to improve maximum number of students to achieve higher opportunities. The program is designed to enhance employability skills and make students employable. Specialized reputed agencies are invited by institute like byteXL India Pvt. Ltd., Zensar, Seed Infotech Pvt. Ltd., etc. to give aptitude and soft skill training to students. Many practice tests are conducted for the assessment of students like Aspiring Minds Computer Adaptive Test(AMCAT), from that students can evaluate themselves and come to know the areas that need to improve. Entrepreneurship development/awareness program organized to know the required skill set to become a successful entrepreneur. The duration of Training program is generally 90 hours that is conducted for BE students of all Branches. This training consists of main 3 Modules. First is Soft skill, second is Aptitude and third is Technical. Training Placement Officer(TPO) and departmental Training and Placement Coordinators play an important role in this.

In soft skill training, the students are trained for personality development, behavioral skills, presentation skills, resume writing, Group discussion, etc. Aptitude Training consists of Quantitative Aptitude, Logical Reasoning, English, etc. Combination of class room and hands- on training provided by industry experts, Value added Programs help students become technically sound.

This training helps the students with preparation and self-evaluation of technical and soft skills and make them ready for campus placement.

Evidence of Success:

The program has helped the students in motivating and preparing for better employment during campus placement. The outcome of this can be judged from the final year placement of students, which shows a continuous improvement as compared to previous years. Our Training Placement Officer (TPO) Mr. Rajusing Rathod received awards like “TPO of the Year 2022” at New Delhi for his contribution to enabling the future workforce become technically empowered and industry ready.

Problem Encountered and Resource Required:

The most commonly reported problem is few students from Civil Engineering and Mechanical Engineering show less enthusiasm for such training. Maintaining consistent attendance of students. It is required to give more focus and counseling to students. Need to build confidence in students comes from the ruler

background in communication and group discussion. For these, we can take help of an external agencies and audio-visual aids.

Best Practice 2

Title: Social Outreach Activities

In India, we can see diversities of ethnic, linguistic, regional, economic, religious, class and caste groups, which are also permeated with immense urban-rural differences and gender distinctions. To address related issues the institute is always active and supportive.

Objective of practice

- To raise awareness of social issues among students.
- To increase the sensitivity of students and staff to social values and ethics.
- Provide a platform for students and the community for social work and interaction through various activities.
- To create awareness in the people living in ruler area for comprehensive and sustainable development.

Context

Students are the future of our country. It is the students who are going to develop our country in the near future. It is not wrong to say that our country is in the hands of the students who are studying today. So, these students should know how to interact socially, how to understand other people's problems and how to work for social betterment of society.

The Practice

The Institute is operative for providing a platform and encouraging students to engage with different communities through the conduction of outreach activities.

National Service Scheme (NSS):

Various programs and activities are conducted in NSS Special Camp at villages. Activities include village cleanliness, awareness of hygiene, sports and skill based competition, tree plantation, awareness about superstition and other social issues, performing local survey to understand their living standards, construction of bunds (Bandhara) across water stream to conserve the water, arranging cultural and social

activities with villagers to promote communal harmony, etc.

NSS also organize Swachh Bharat Mission, blood donation camp, tree plantation in campus and nearby areas, awareness activities like Go Cycle rally, Traffic control and Road Safety program, etc.

More than 100 volunteers participated in Covid 19 pandemic disaster management. Faculties had been appointed for Oxygen audits in hospitals.

K J Kalatmak Art Circle:

K J Kalatmak art circle provide a platform for the students to perform drama/act in front of many people by participating in various competition. Through drama/act, they can give social messages.

Evidence of Success

- The main objectives of the Social Outreach Activities are accomplished as students and staff actively participated in various outreach activities even during pandemic crises.
- Appreciation letters were received from the Gram Panchayat for the conduction of various activities through NSS Special Camp for the overall development of village and inspired the villagers for the same.
- Thanking letter received from the Gram Panchayat for Household grocery distribution to poor and socially deprived people during pandemic.
- Certificates of merit have been awarded to NSS Unit and KJCOEMR by blood banks.
- Principal Dr. Suhas S. Khot got recognitions through many awards and certificates for his contribution in academics and Nation Building. Awards like “Sanman Chinh” from Pune Municipal Corporation, “Best Principal Performance Award” at New Delhi, and many more.

Problem Encountered and Resource Required

The engineering academic schedule is very hectic. Some students were not able to participate in social outreach activities because of continuous lectures and practicals.

File Description	Document
Any other relevant information	View Document
Best practices as hosted on the Institutional website	View Document

7.3 Institutional Distinctiveness

7.3.1 Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Response:

EVERGREEN AND POLLUTION FREE HUGE CAMPUS WITH DISTINCT AMENITIES AND ADVANCED LABORATORIES

The infrastructure of any educational institute plays an important role in the holistic development of students. In today's competitive world along with study, other co-curricular and extracurricular activities are essential. Laboratories with advanced equipment enhance the technical abilities of the students. Also, a Green & pollution free campus can help to spread positivity and reduce the stress level which is ideally suited for technical education. A huge campus area can be a gift for students to explore and enjoy.

A. EVERGREEN & POLLUTION FREE CAMPUS

Pune city is famous for a number of two wheelers, Automobile Industries, IT Industry, small scale industries, educational institutes, etc. Some of them play a major role in creating air and noise pollution. This creates health and mental issues in the youngster. KJCOEMR institute is surrounded by hills, a variety of trees are available here and restricted entry for vehicles makes this campus free from air and noise pollution which improves the health and concentration of students and faculty members. It also creates awareness amongst the students to live with nature and treat the environment as their friend.

Some key features of the lush green and pollution free KJCOEMR campus:

- **Productive learning environment:**

Everyone requires a calm and peaceful space to study and concentrate. KJCOEMR campus provides a place that student needs.

- **Better indoor air quality:**

Many diseases occur at very early age to students due to poor indoor air quality. This disadvantage is minimized on the KJCOEMR campus.

- **Better Acoustic:**

Effective learning involves effective listening. The reduced noise level in KJCOEMR campus maximizes the learning experience of students.

- **Healthy life:**

Students developed good memory when surrounded by green trees. Trees provide clean air and boost the immune system.

- **Ecosystem:**

A variety of trees and plants contribute to a rich, healthy ecosystem.

- **Oxygen and Global Warming:**

Trees intake carbon dioxide from the air and breath out fresh oxygen. Institute planted more than 17000 trees till now in the campus itself, which contributes to reducing global warming effects.

Landscaping

Landscaping allows different species of plants to grow and nurture. It reduces Air Pollutants. The campus has well designed and maintained landscaping.

Rain/Storm Water Management

Institute developed its own reliable water resources by using effective rain/storm water management. Institute created two water bodies. Down take lines are fixed to the institute building to transfer the rainwater collected on terrace. All the rain and storm water transfer to those water bodies through various

channels by using natural ground slopes. The water stored in the water bodies uses for maintenance and domestic needs.

Variety of Trees Planted to Maintain Green Campus

Planting trees in campus provide helps to create a fresh environment, looks soothe beautiful appearance, purifies the air, and reduces stress.

B. HUGE CAMPUS WITH DISTINCT AMENITIES

College life is a wonderful phase of life. Students look for the campus having ample space with multiple amenities to hang out inside. KJCOEMR has one of the largest campuses in Pune city which is spread over 110 acres. It is having features like multiple canteens, Gymkhana, Football turf ground, Cricket Ground, and other indoor/outdoor sports facilities.

Sports and physical training are a key part of holistic development for the students to build discipline, learn team work and improve reflexes. It offers an additional career avenue for students. In India, the commercialization of sports is developing speedily which gives name and fame to the sports person. Also, it helps to get jobs in government sectors through sports quotas.

Space for Horseback Riding

Space for horse riding in the campus is in the developing phase. Horseback riding will improve physical, mental, and emotional state of students.

Olympic-size Swimming Pool

The swimming pool at campus is in developing phase. Swimming pool is value added amenity which will improve the mental and physical health of the students. It also teaches how to stay safe in and around water. This facility can contribute to the students wish to participate in Olympic Games.

Other Sports Facilities

Institute specially developed a sports facility which comprises a cricket ground, Turf football ground, Basketball court and Indoor games like carom, Chess, Table tennis and Gym. This area is not used for specific activities but many other activities like Volleyball, Badminton, Kho-Kho, Kabaddi, yoga, jogging

etc.

Multiple canteen facilities and cafeterias in the campus:

The canteen is an important facility for the students through which they can obtain a better quality of food and refreshments. Multiple canteen facilities and cafeteria in campus is a major retention strategy for the students to stay on campus.

One campus many institutes

Total 9 institutes in one campus are running different courses like Engineering, Architecture, Pharmacy, etc. which increases student's strength. This leads to making more friends and forming a hobby clubs which enhance the skill.

Gathering Place

An auditorium and multipurpose space are important gathering places where Institute can easily arrange annual social gathering functions.

Other Ancillary Facilities

The facilities like ATM, stationary and copy centers, vehicle parking, etc. are available in campus. These facilities make the students stay in the campus comfortable and joyful.

Space for future development

There is a lot of space available in the campus for creating different new resources.

C. ADVANCED LABORATORIES

Engineering involves lots of experimenting. Advanced labs provide various opportunities to learn and experiment to the students.

Computerized Universal Testing Machine

A number of materials and metals in different forms and shapes can be tested for a variety of tests like Tension, Compression, Shear, etc. by using a Universal Testing machine (UTM). The capacity of this UTM machine is 1200 KN which is higher than the requirement of educational purposes. UTM machine is very much beneficial for research and consultancy work.

Steam Power Plant

A steam power plant is installed in the institute It clarifies all the details to the students about the generation of electricity from steam. Due to this significance, the institute provides consultancy to students from other colleges.

File Description	Document
Appropriate web in the Institutional website	View Document
Any other relevant information	View Document

5. CONCLUSION

Additional Information :

K J College of Engineering and Management Research, Pune supports core values. Higher Education Institutions (HEIs) operate in a dynamic environment all over the world. To expand the education system, and educational delivery; KJCOEMR came forward to contribute to the educational field.

For fostering Global Competencies among Students, we have

1. An Indian Society for Technical Education (ISTE) membership:

ISTE is working at the national level in the field of technical education to improve the quality of technical education. ISTE conducts various activities for the development of students and faculties.

2. Virtual Lab's Nodal Center under COEP Mentorship:

To provide remote-access to Labs in various disciplines of Engineering, to provide a complete Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation, to share costly equipment and resources, which are otherwise available to limited number of users due to constraints on time and geographical distances.

To Inculcating a Value System among Students:

In a country like India, with cultural pluralities and diversities, it is essential that students imbibe the appropriate values commensurate with social, cultural, economic and environmental realities, at the local, national, and universal levels. We conduct such activities in our campus to make our student as responsible citizens of our nation.

Promoting research environment:

To promote research culture among students and faculties we have taken "IPR Awareness Program" under National Intellectual Property Awareness Mission(NIPAM) launched by the Government of India on the occasion of the 75th anniversary of independence under the banner "Azadi Ka Amrit Mahotsav" to create widespread awareness on Intellectual Property Rights (IPR) on August 12, 2022 in association with Intellectual Property Office, Mumbai. We highly appreciated for our active participation.

Concluding Remarks :

KJCOEMR has started its educational journey in 2009 with the goal of offering higher education to students from rural areas. Institute was founded with the noble vision to raise professionals and leaders of high academic caliber who can face the challenges of advancing technology and newer knowledge areas. Till date KJCOEMR has produced 4209 graduate engineers with different programmes. KJCOEMR is approved by AICTE & DTE, Govt. of Maharashtra and is affiliated to Savitribai Phule Pune University. The Institute within Pune is spread across 110 acres of picturesque campus nestled in the green valley, with its near-zero pollution and fresh air,

creates a perfectly conducive low-stress climate for learning, research, innovation and character-building. The notions of merit and excellence has been a top priority for KJCOEMR at the quality level. Its quality commitment is shown by our students by securing University ranks in SPPU. Modern, cutting-edge facilities are given to create an environment that is beneficial to teaching, learning, and the overall development of the students in KJCOEMR.

KJCOEMR has been very crystal clear at the administration front. It notifies all its notices, SPPU notices through its website. It publishes placement records at the main entrance of the institute every year. The placement ratio is 90%+ every year.

6.ANNEXURE

1.Metrics Level Deviations

Metric ID	Sub Questions and Answers before and after DVV Verification																																								
2.1.2	<p>Percentage of seats filled against seats reserved for various categories (SC, ST, OBC, Divyangjan, etc. as per applicable reservation policy) during the last five years (Exclusive of supernumerary seats)</p> <p><i>2.1.2.1. Number of actual students admitted from the reserved categories year - wise during the last five years</i></p> <p>Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>76</td><td>65</td><td>25</td><td>16</td><td>26</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>64</td><td>57</td><td>25</td><td>16</td><td>26</td></tr></table> <p><i>2.1.2.2. Number of seats earmarked for reserved category as per GOI/ State Govt rule year wise during the last five years</i></p> <p>Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>270</td><td>270</td><td>284</td><td>370</td><td>370</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>270</td><td>270</td><td>284</td><td>370</td><td>370</td></tr></table> <p>Remark : Input edited as per the supporting documents.</p>	2021-22	2020-21	2019-20	2018-19	2017-18	76	65	25	16	26	2021-22	2020-21	2019-20	2018-19	2017-18	64	57	25	16	26	2021-22	2020-21	2019-20	2018-19	2017-18	270	270	284	370	370	2021-22	2020-21	2019-20	2018-19	2017-18	270	270	284	370	370
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2021-22	2020-21	2019-20	2018-19	2017-18																																					
270	270	284	370	370																																					
3.1.1	<p>Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)</p> <p><i>3.1.1.1. Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)</i></p> <p>Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>74100</td><td>55720</td><td>250740</td><td>133168</td><td>78700</td></tr></table> <p>Answer After DVV Verification :</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table>	2021-22	2020-21	2019-20	2018-19	2017-18	74100	55720	250740	133168	78700	2021-22	2020-21	2019-20	2018-19	2017-18																									
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2021-22	2020-21	2019-20	2018-19	2017-18																																					

0.74100	0.55720	2.50740	1.33168	0.78700
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Remark : Input converted into lakhs.

3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years

3.3.1.1. Number of research papers in the Journals notified on UGC CARE list year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
16	14	13	13	18

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
10	2	12	12	6

Remark : Input edited as per the supporting documents.

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
23	02	01	00	02

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
2	2	1	0	2

Remark : Input edited as per the supporting document.

3.4.3 Number of extension and outreach programs conducted by the institution through NSS/NCC/Red cross/YRC etc., (including the programmes such as Swachh Bharat, AIDS awareness, Gender issues etc. and/or those organised in collaboration with industry, community and NGOs) during the last five years

3.4.3.1. Number of extension and outreach Programs conducted in collaboration with industry, community, and Non- Government Organizations through NSS/ NCC/ Red Cross/ YRC etc., year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
09	08	14	17	12

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
06	10	08	06	02

Remark : Input edited as per the supporting document.

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Answer before DVV Verification :

Answer After DVV Verification :11

Remark : Input edited as per the supporting documents

5.1.3 Percentage of students benefitted by guidance for competitive examinations and career counseling offered by the Institution during the last five years

5.1.3.1. Number of students benefitted by guidance for competitive examinations and career counselling offered by the institution year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
813	1416	695	224	168

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
813	1055	695	224	168

Remark : Input edited as per the supporting documents.

5.3.1 Number of awards/medals for outstanding performance in sports/ cultural activities at University / state/ national / international level (award for a team event should be counted as one) during the last five years

5.3.1.1. Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one) year wise during the last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18

01	01	03	02	02
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Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
01	0	01	01	0

Remark : Input edited as per the supporting document

5.3.2

Average number of sports and cultural programs in which students of the Institution participated during last five years (organised by the institution/other institutions)

5.3.2.1. Number of sports and cultural programs in which students of the Institution participated year wise during last five years

Answer before DVV Verification:

2021-22	2020-21	2019-20	2018-19	2017-18
02	02	88	101	82

Answer After DVV Verification :

2021-22	2020-21	2019-20	2018-19	2017-18
03	02	02	02	03

Remark : Input edited as per the supporting documents.

2.Extended Profile Deviations

Extended Form Deviations

ID	Extended Questions																				
1.1	<p>Number of students year wise during the last five years</p> <p>Answer before DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>1154</td><td>1221</td><td>1034</td><td>1262</td><td>1572</td></tr></table> <p>Answer After DVV Verification:</p> <table><tr><td>2021-22</td><td>2020-21</td><td>2019-20</td><td>2018-19</td><td>2017-18</td></tr><tr><td>1154</td><td>1221</td><td>1034</td><td>1262</td><td>1572</td></tr></table>	2021-22	2020-21	2019-20	2018-19	2017-18	1154	1221	1034	1262	1572	2021-22	2020-21	2019-20	2018-19	2017-18	1154	1221	1034	1262	1572
2021-22	2020-21	2019-20	2018-19	2017-18																	
1154	1221	1034	1262	1572																	
2021-22	2020-21	2019-20	2018-19	2017-18																	
1154	1221	1034	1262	1572																	
2.1	<p>Number of teaching staff / full time teachers during the last five years (Without repeat count):</p> <p>Answer before DVV Verification : 161</p> <p>Answer after DVV Verification : 161</p>																				